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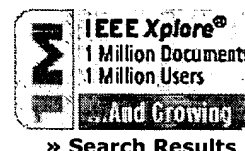59 **Discriminative training algorithm for predictive neural network models**
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Jing Peng; Heisterkamp, D.R.; Dai, H.K.;
Computer Vision and Pattern Recognition, 2001. CVPR 2001. Proceedings of the 2001 IEEE Computer Society Conference on , Volume: 1 , 8-14 Dec. 2001
Pages:I-58 - I-63 vol.1

[Abstract]   [PDF Full-Text (670 KB)]   **IEEE CNF**

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6 A hybrid approach to the profile creation and intrusion detection
Marin, J.; Ragsdale, D.; Sirdu, J.;
DARPA Information Survivability Conference & Exposition II, 2001. DISCEX '01. Proceedings , Volume: 1 , 12-14 June 2001
Pages:69 - 76 vol.1

[Abstract]   [PDF Full-Text (600 KB)]   **IEEE CNF**

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7 LDA/SVM driven nearest neighbor classification
Jing Peng; Heisterkamp, D.R.; Dai, H.K.;
Neural Networks, IEEE Transactions on , Volume: 14 , Issue: 4 , July 2003
Pages:940 - 942

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Pages:1014 - 1022

[Abstract]   [PDF Full-Text (294 KB)]   **IEEE JNL**

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Bax, E.;
Information Theory, IEEE Transactions on , Volume: 46 , Issue: 7 , Nov. 2000
Pages:2746 - 2752

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Pages:3248 - 3252 Vol.5

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9 **Noise reduction to text categorization based on density for KNN**
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Validation of nearest neighbor classifiers

Bax, E.
DEpt. of Math. & Comput. Sci., Richmond Univ., VA, USA;
This paper appears in: **Information Theory, IEEE Transactions on**

Abstract:
This article presents a method to bound the out-of-sample error rate of a **nearest neighbor** classifier. The bound is based only on the examples that comprise the classifier. Thus all available examples can be used in the classifier; no examples need to be withheld to compute error bounds. The estimate used in the bound is an extension of the holdout estimate. The difference in error rates between the holdout classifier and the classifier consisting of all available examples is estimated using truncated inclusion and exclusion

Index Terms:
error statistics   image classification   learning (artificial intelligence)   error bounds   holdout classifier   holdout estimate   **machine learning**   **nearest neighbor** classifiers   out-of-sample error rate bound   satellite images   truncated exclusion   truncated inclusion

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Pages:274 - 279

[Abstract]   [PDF Full-Text (396KB)]   IEEE CNF

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Chen, H.-H.; Yeh, Y.-C.; Chao, C.-Y.; Yeh, J.-F.;
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[Abstract]   [PDF Full-Text (192KB)]   IEE JNL

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Communications, IEE Proceedings- ,Volume: 146 , Issue: 1 , Feb. 1999
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[Abstract]   [PDF Full-Text (564KB)]   IEE JNL

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Electronics Letters ,Volume: 27 , Issue: 18 , 29 Aug. 1991
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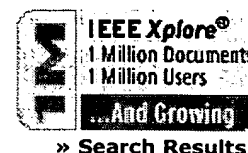**83 Supervisory control and fault detection for SISO and MIMO systems**
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Hunter, L.; Lathrop, R.H.;
Intelligent Systems, IEEE [see also IEEE Expert] ,Volume: 17 , Issue: 2 , March-April 2002
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Hunter, L.; States, D.J.;
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Pages:67 - 75

[Abstract]   [PDF Full-Text (832KB)]   **IEEE JNL**

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3 **ClassX: a browsing tool for protein sequence megaclassifications**
Harris, N.L.; States, D.J.; Hunter, L.;
System Sciences, 1993, Proceeding of the Twenty-Sixth Hawaii International Conference on ,Volume: i , 5-8 Jan 1993
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4 **Bayesian classification of protein structural elements**
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